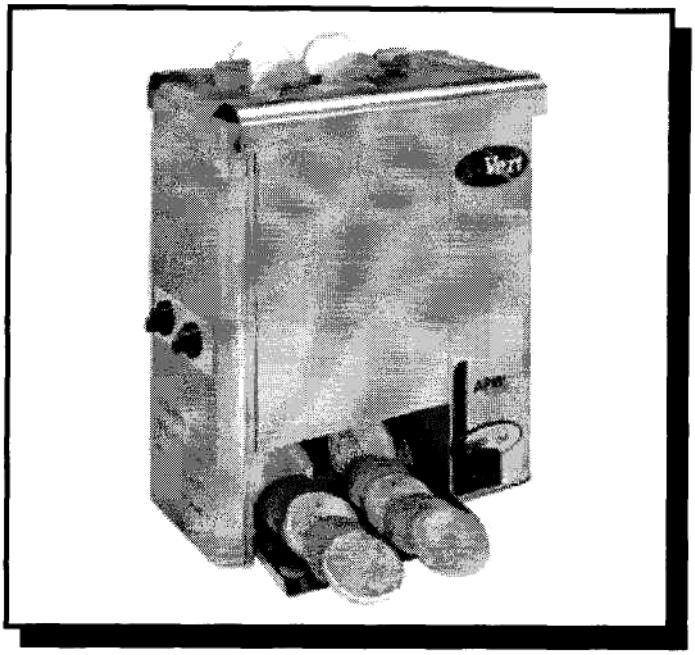
APW wyott®

INSTALLATION AND OPERATING INSTRUCTIONS

X'Vert™

Model: VSX



VERTICAL CONTACT BUN GRILL TOASTER

INTENDED FOR OTHER THAN HOUSEHOLD USE

RETAIN THIS MANUAL FOR FUTURE REFERENCE TOASTER

⚠ **FOR YOUR SAFETY:** Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. ⚠

⚠ **WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the Installation, Operating and Maintenance Instructions thoroughly before installing or servicing this equipment. ⚠

Initial heating of toaster may generate smoke or fumes and must be done in a well ventilated area. Overexposure to smoke or fumes may cause nausea or dizziness.

This equipment has been engineered to provide you with year-round dependable service when used according to the instructions in this manual and standard commercial kitchen practices.

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CLASSIFIED UL EPH
ANSI/NSF4

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1. OWNER'S INFORMATION

General Information:

The APW Wyott X'Vert™ Vertical Contact Bun Grill Toaster (VSX) is designed to toast two whole buns (2 crowns and 2 heels) at the same time. (See page 5, Figure 4) Toasting is accomplished through contact of the flat side of the buns with an aluminum griddle plate. The user places both buns into the top of the toaster and two perfectly caramelized, warm buns (4 halves) will slide out of the bun chute. The VSX will toast two buns in 8,20 or 30 seconds (depending on your model).

The Manual includes information for proper procedures on safety, installation and operation of the Vertical Contact Bun Grill Toaster (VSX). It is of extreme importance that this manual be read in its entirety before installing and operating this unit.

This Vertical Contact Bun Grill Toaster (VSX) is manufactured of the highest quality materials available and is built to the stringent quality standards of APW Wyott. Quality Assurance testing is one of the standards that we adhere to.

Please keep this manual for future reference. It contains important instructions for the proper installation, operation and service of this unit. If this unit changes ownership, it is important that this manual accompany the equipment.

Warranty Information:

Reliability backed by APW Wyott's Warranty:
All APW Wyott Bun Grill Toasters are backed by a 1-year Parts and Labor warranty, including On-Site Service calls within 50 miles of authorized service technicians.

Service Information: Service Hotline (800) 733-2203

2. SAFETY INFORMATION

APW Wyott toasters are designed, built, and sold for commercial use and should be operated by trained personnel only. Clearly post all CAUTIONS, WARNINGS and operating instructions near each unit to insure proper operation and to reduce the chance of personal injury and/or equipment damage.

Always disconnect power before servicing the toaster. Surfaces will remain hot after power has been turned off. Allow unit to cool before cleaning or servicing. Never clean the toaster by immersing it in water. The toaster is not protected against water jets; DO NOT CLEAN TOASTER WITH A WATER JET. Always clean equipment before first use.

Operating toaster without legs will void the warranty. Insure all accessories and exterior panels are properly installed and adjusted before applying power and operating.

3. SPECIFICATIONS

Cordset Configuration:
208/240V: NEMA6-20Pplug,3foot, 3 wire grounded cord. 208/240V:
NEMA6-20P plug (90° angle), 5foot, 3 wire grounded cord.

If the supply cord is damaged, the manufacturer or an authorized service agent (or a similarly qualified person) must replace it to avoid a hazard. Failure to replace a damaged cord will void the warranty.

Overall Dimensions:
VSX: 24"H x 19"W x 11" D
(61 cm x 48 cm x 28 cm)

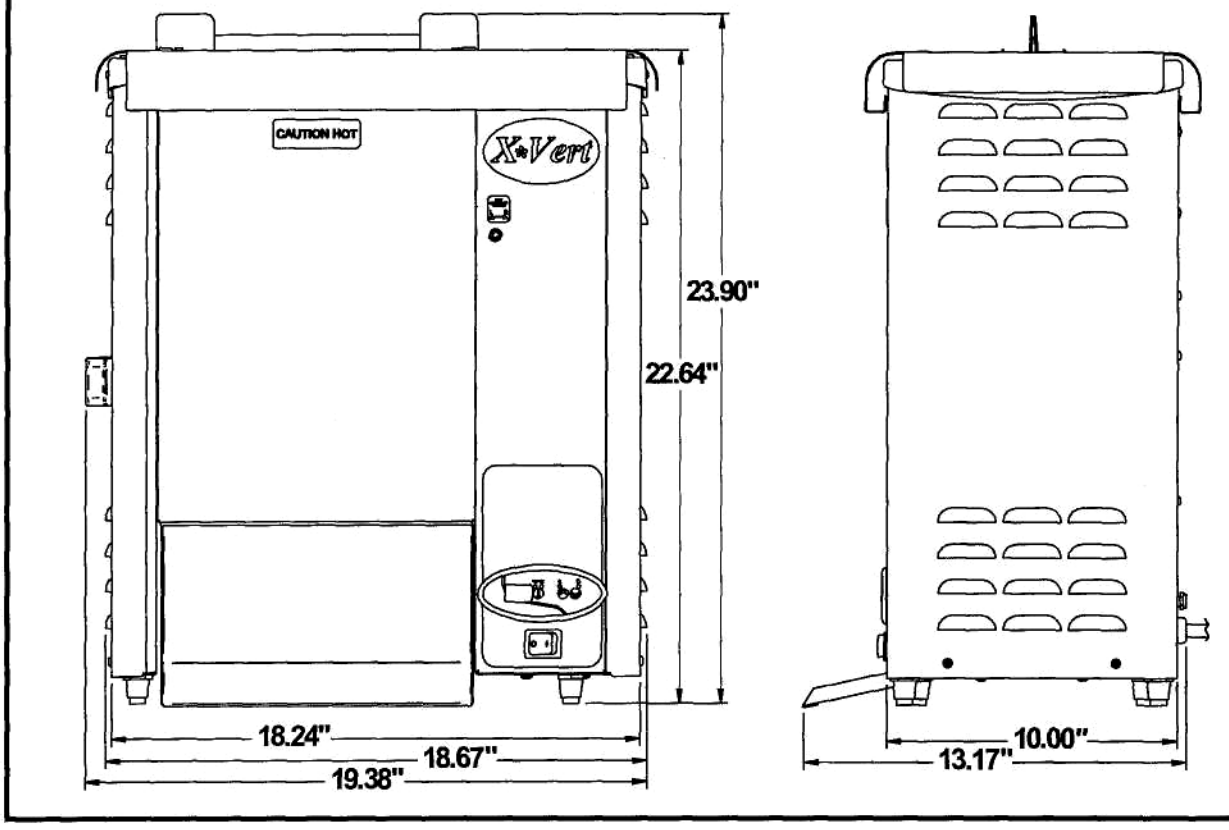
Electrical Ratings:
VSX: 208V - 2570W, 12.5 Amps 60HZ
VSX: 240V - 3420W, 14.5 Amps 60HZ

NEMA-6-20P
20 Amp, 250 VAC

WARNING: *ELECTRICAL SHOCK HAZARD. FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL COULD RESULT IN SERIOUS INJURY OR DEATH.*

- Electrical Ground is required on this appliance.
- Do not modify the power supply cord plug. If it does not fit into the outlet, have the proper outlet installed by a qualified electrician
- Do not use an extension cord with this appliance.
- Check with a qualified electrician if you are unsure as to whether the appliance is properly grounded.

FIGURE 1: DIMENSIONS



4. OPERATION

Operating Instructions (see figure #4)

This toaster is for **Dry operation only** (no oil). Do not put buttered bread products in the toaster.

- Ensure Release Sheets are properly installed. (See page 7.)
- Turn Main Power Switch on. Set Temperature Control to desired temperature. (Temperature is factory set at 600°F.)
- Allow Pilot Light to cycle at least two times (on/off). When the light is on, the grill is heating. Heat up time is about 15 minutes.
- Place bun halves on feeder cut side down (facing grill surface). Toast time is approximately 8, 20 or 30 seconds depending on bun height, diameter and model purchased. Increase or decrease temperature setting and/or Bun Thickness Dials to achieve desired brownness and temperature.

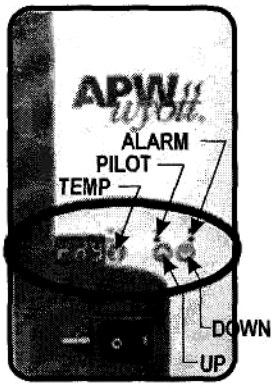
FIGURE 2: BUN THICKNESS DIALS

Bun Thickness Adjustment

The VSX is designed to accommodate a variety of different products. Adjust for product thickness by setting the Bun Thickness Dials on the side of the toaster to the appropriate setting. Settings for different thicknesses are indicated on the label adjacent to the Bun Thickness Dials. See figure 2.

Electronic Temperature Control (See Figure 3)

FIGURE: 3 ELECTRONIC CONTROL



UP:	While pressed, displays the set-point. Press and hold for at least 3 seconds to increase set point.
DOWN:	While pressed, displays the set-point. Press and hold for at least 3 seconds to decrease set point.
TEMP:	Press to momentarily display the actual platen temperature.
PILOT:	Illuminated when power is being applied to heater.
POWER:	Main power supply to the toaster.

Operation of Controller (See Figure 3)

1. Make sure that all the doors are closed and the lid is on. (It should look like the photograph on the cover.)
2. Make sure toaster is plugged in to the correct voltage. The voltage of the toaster is written on the serial label. The serial label is located on the back of the toaster near the cord.
3. Turn the toaster on (POWER). "|" is on and "O" is off.
4. When main power is applied, the digital display will boot up (displays "888" and then the software version information). Then it will display "Lo." (If the toaster is already warm, it might display "Hi.")
5. The toaster remembers the last set point that was entered, even if you turn the toaster off. APW recommends a set point of 600°F or below. If you wish to change the set point, press (and hold) either the UP or DOWN key. Display will change set point by 1 degree for the first 5 degrees, and then it will jump by 5's. When you reach the set point that you want, let go of the button. You may then press the UP or DOWN key to make further changes. If you don't press any buttons for 5 seconds, then the new set point will take effect.
6. When the set point is changed, the display will say "Lo" or "Hi" until the set point is reached. After that time it will say "rdY." While it says "rdY" the platen will cycle on and off to maintain the set point. Whenever heat is applied to the platen, the PILOT LED will be illuminated.
7. It takes the toaster 10-15 minutes to warm up.

Status, Alarm, and Error Messages (See Figure 3)

rdY Control is at set point and the toaster is ready for operation.

Lo Actual temperature is below set point. After toaster has reached "rdY," then this indicates that the platen is less than 50°F below the set point (too cold).

Hi Actual temperature is above set point.

Prb The temperature probe (sensor) is disconnected or defective.

HIE Actual temperature is at least 50°F above set point, indicating that there is a controller error.

FIGURE 4: TYPICAL TOASTER OPERATION

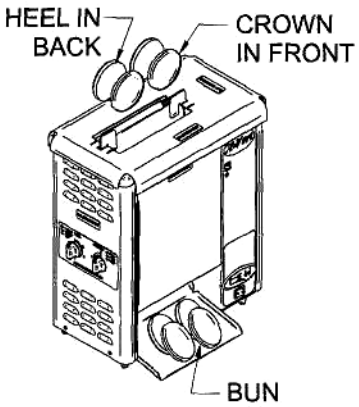
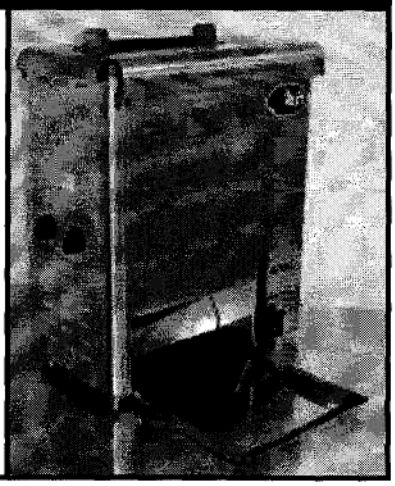


FIGURE 5: VSX-20 W/BUN CATCHER

"If you like to keep your counter clean, APW Wyott also offers a bun catcher. This is a bun chute that will catch the crumbs that fall down the bun chute. The bun catcher is part number 81699002."



Bulb & Capillary Temperature Control (See Figure 6)

NO HEAT: When the knob is pointed here, all heat is cut off from the platen. The conveyors will run, but the platen will not heat.

PILOT: Illuminated when power is being applied to heater.

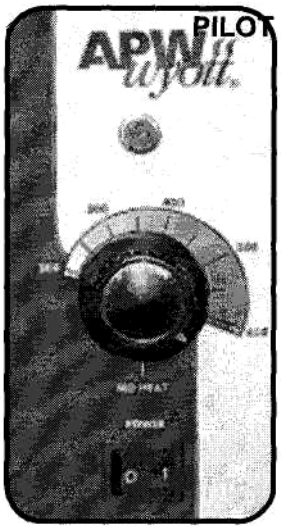
KNOB: Used to select the set point. Graduations are °F.

POWER: Main power supply to the toaster.

Operation of Controller (See Figure 6)

1. Make sure that all the doors are closed and the lid is on. (It should look like the photograph on the cover.)
2. Make sure toaster is plugged in to the correct voltage. The voltage of the toaster is written on the serial label. The serial label is located on the back of the toaster near the cord.
3. Turn the toaster on (POWER). "|" is on and "O" is off.
4. Turn the dial to the desired set point. APW recommends that you set it to 600°F or below. If the dial is set to "NO HEAT" then the toaster will run normally except that there will be no more heat supplied to the toaster. The toaster will cool down to room temperature.
5. Whenever heat is applied to the platen, the PILOT light will be illuminated. When the pilot light has cycled a couple of times (turned off and on, twice), then the toaster is ready for toasting. This takes 10-15 minutes.

FIGURE 6: BULB & CAP CONTROL



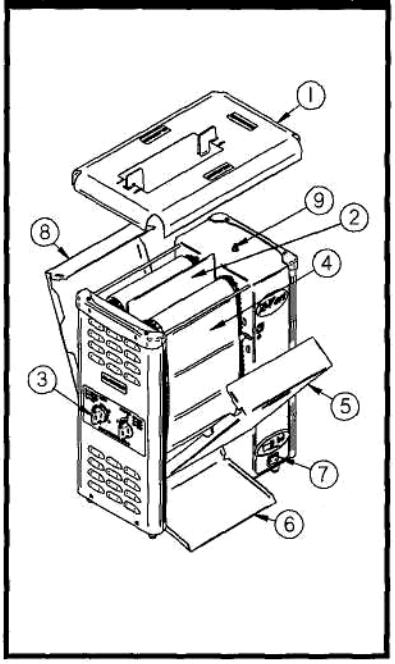
5. CLEANING

Cleaning Instructions

Toaster is for DRY BUNS ONLY. Do not put buttered bread products in the toaster.
Note: To save time at closing (it will take 15 minutes for toaster to cool down), you might want to have the day shift clean the toaster.

1. Turn off (7) Main Power Switch (See Fig. 7). Allow toaster to cool down.
2. Remove (6) Bun Slide and (1) Top Cover (See Fig. 7) & wash in sink.
3. For ease of cleaning, turn the toaster so that you can access the conveyor.
4. Lift up and lower (5) Front Panel (See Fig. 7).
5. Depress (9) Conveyor Button (See Fig. 7). Using a cloth or sponge, and Sizzle Plus™ (from Kay Chemical, www.ecolab.com), wipe (4) belting back and forth removing bread crumbs and debris. Continue until belting is clean. (See Figure 8)
6. Close (5) Front Panel (See Fig. 7).
7. Lift up and lower (8) Back Panel (See Fig. 7).
8. Repeat step five.
9. Close (8) Back Panel (See Fig. 7).
10. Rotate (3) Bun Thickness Dials to the vertical position.
11. Clean (2) Release Sheet (See Fig. 7) according to the instructions on page 7.
12. Replace (1) Top Cover (See Fig. 7).
13. Rotate (3) Bun Thickness Dials to their original position.
14. Turn on (7) Main Power Switch (See Fig. 7).

FIGURE 7: TOASTER PARTS
(PIEZAS DE LA TOSTADORA)



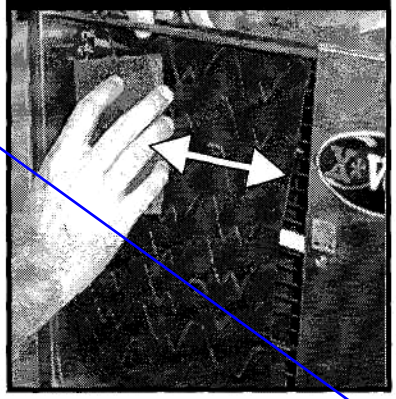
5. CLEANING (EN ESPAÑOL)

El Procedimiento de Limpieza

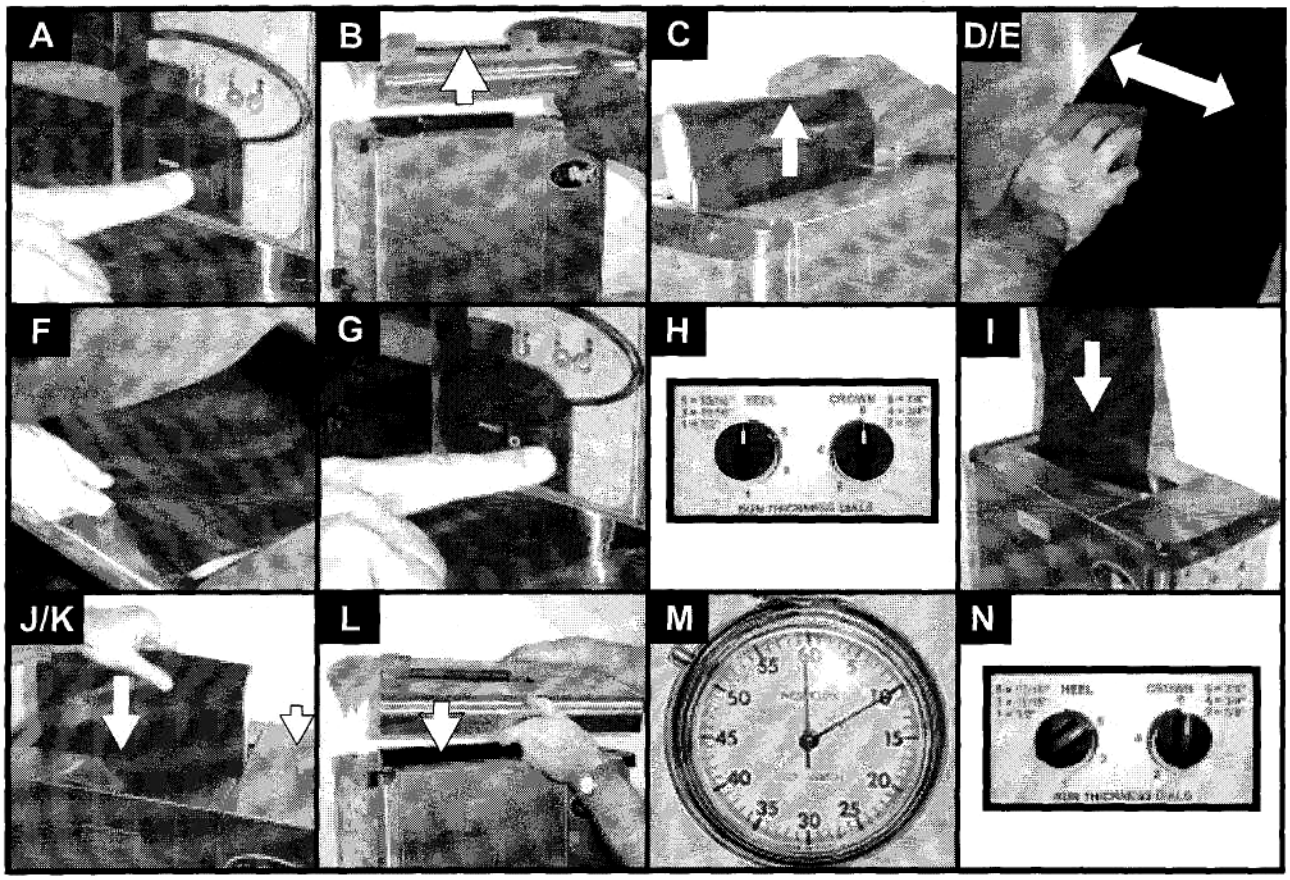
Tostador es SOLO PARA LOS BOLLOS SECOS. No ponga los productos de pan untados con mantequilla en la tostadora.
Nota: Para ahorrar tiempo al cerrar (Hay que esperar 15 minutos para que el tostador se pueda enfriar) usted puede decirle al los trabajadores del horario diurno que deben limpiar el tostador.

1. Apagar usando (7) el interruptor principal (mirar la 7ma figura). Darle un tiempo al tostador de enfriarce.
2. Quitar (6) el deslizador de los bollos y (1) la cubre tapa (mirar la 7ma figura) y lavar en el regadero.
3. Para la facilidad de la limpieza, dé vuelta a la tostadora de modo que usted pueda tener acceso al transportador.
4. Levantar y bajar (5) el panel delantero del tostador (mirar la 7ma figura).
5. Deprimir (9) el botón de la correa transportadora (mirar la 7ma figura) Usando un trapo o esponja y Sizzle Plus™ (de Kay Chemical, www.ecolab.com), limpiar (4) la correa adelante y atras quitando las migajas de pan y otros escombros. Continuar hasta que la correa este limpia. (Mirar la 8va figura)
6. Cerrar (5) el panel delantero.
7. Levantar y bajar (8) el panel detrás de el tostador (mirar la 7ma figura).
8. Repetir el paso número cinco.
9. Cerrar (8) el panel detrás.
10. Girar (3) los diales que específica lo grueso de los bollos a la posición vertical.
11. Limpie (2) la Hoja de Salida (mirar la 7ma figura) según las instrucciones en la página 7.
12. Reemplazar (1) la cubre tapa (mirar la 7ma figura).
13. Girar (3) los diales que específica lo grueso de los bollos a su posición original.
14. Poner en marcha usando (7) el interruptor principal (mirar la 7ma figura).

FIGURE 8: CLEANING THE BELT
(LIMPIEZA DE LA CORREA)



Release Sheet Care and Replacement



A. Turn toaster off.
B. Remove the Top Cover.
C. Remove old Release Sheet from the toaster platen. ***CAUTION!*** TOASTER PLATEN MAY BE HOT.
D. Using a cleaning pad or sponge, clean both sides of the sheet with a cleaner (we recommend Sizzle Plus™ by Kay Chemical, www.ecolab.com). Then rinse and sanitize both sides. Always clean both sides.
E. Inspect both sides of the Release Sheet to see if they are still good (fairly clean and slick). If one side of the Release Sheet doesn't allow buns to slide over it in the toaster, then that side of the sheet is no longer good. When neither side allows the buns to easily slide through the toaster, it is time to replace the sheet. It is best to use up one side of the sheet, and then switch to the other side. ***Do not switch back-and-forth between sides since this will wear out the sheet at the crease.***
F. When switching sides or using a new Release Sheet, fold the Release Sheet in half (length-wise) and ***lightly*** crease it. The buns will touch the side that is facing out.
G. Turn toaster on. ***(Conveyors will not run because top cover is removed.)***
H. Move the conveyors out full. (The Bun Thickness Dials should point straight up.)
I. Drape the Release Sheet over the toaster platen and go about 5" down.
J. While holding the Release Sheet with one hand, press the conveyor button on top to start the conveyors. As the conveyors turn, they will help the Release Sheet to go down. ***CAUTION!*** BUTTON MAY BE HOT.
K. When the crease reaches the top of the platen, release the Conveyor Button.
L. Replace the top cover to the toaster. ***(Conveyor starts to move.)***
M. Let the toaster run for about 10 minutes to warm up the Release Sheet.
N. Re-adjust the conveyors to their proper settings using the Bun Thickness Dials.

6. TROUBLESHOOTING GUIDE

Always ask and check the following:

1. Is the unit connected to a live power source of the proper voltage?
2. Check the circuit breaker.
3. Is power switch "ON" and pilot light glowing?
4. Check the rating label. Is the unit connected to the correct power source?
5. Is the Top Lid properly secure on top and engaging the Conveyor Button? (See Figure L above).

Service Hotline
(800) 733-2203

Problem	Possible Cause	Corrective Action
No heat and Conveyor Belts don't move.	Toaster is installed incorrectly.	Review and perform installation and operation procedures.
	Lid not placed on top securely.	Install or adjust Lid so that the Push Button Plunger on the top of the toaster is depressed.
	Manual High Limit Switch tripped open.	Reset High Limit Switch according to the instructions contained in this manual. (See page
	Defective components or wiring problem	Check all connections
No heat and Conveyor Belts move.	Set-point is too low	Adjust Temperature Control to desired setpoint. (See page 4)
	Temperature Controller	Check Temperature Controller for an Alarm Message or erroneous reading. Contact an authorized APW service technician.
	Solid-state Relay failure	Contact an authorized APW service technician.
	Inoperative Platen or Wiring Problem	Contact an authorized APW service agent.
Platen is hot and Conveyor Belts don't move	Product or Silicone Belt jammed	Turn unit off, disconnect from power, allow to cool, and remove Silicone Belt. Clean thoroughly according to the instructions in this manual and re-install the Silicone Belt.
	Conveyor hung up.	Turn toaster off, wait 5 seconds, and turn toaster back on. If this happens often, contact an authorized APW service agent.
	Wiring problems, loose or broken drive chains.	Contact an authorized APW service technician.
Product is over toasted or heat is too high, or drop time is too slow, product is getting stuck or Conveyor Belts stop when product is toasting.	Bun Thickness Dials set incorrectly.	Measure bun thickness and set the Bun Thickness Dials accordingly.
	Buns sticking to Release Sheet.	Clean or replace Release Sheet or Silicone Belt according to the instructions in this manual.
	Temperature Controller set point too high.	Verify Thermostat is cycling at the desired temperature set point and lower if necessary.
	Voltage too high.	Verify the line voltage matches the toaster's rated voltage identified on the serial number data plate.
	Wiring problems or defective components.	Contact an authorized APW service Technician.
Product is under toasted or platen heat is too low or drop time is too fast	Bun Thickness Dials set incorrectly.	Measure bun thickness and set the Bun Thickness Dials correctly.
	Temperature Controller set point too low.	Verify that the Thermostat is cycling at the desired temperature and raise if necessary.
	Voltage too low.	Verify that the line voltage matches the toaster's rated voltage identified on the serial number data plate
	Wiring problem or defective components.	Contact an authorized APW service technician.
Conveyor Belts are jumping or snapping	Toaster is installed incorrectly	Review and perform installation and operation instructions.
	Conveyor Drive Belts skipping loose, worn, or broken.	Contact an authorized APW service technician.
Buns getting stuck on discharge.	Buns not being removed from Discharge Chute fast enough. Several buns are being allowed to collect on the Bun Chute.	Remove buns from Bun Chute faster.
	Discharge Chute has been lifted up and a placed under it (to catch crumbs).	Remove the pan or purchase APW / Wyott VSX #81699002 BUN CATCHER ACCESSORY KIT. This part has a pan built in to the bun chute to catch crumbs.

Problem	Possible Cause	Corrective Action
Crown and / or heel must be forced into the toaster.	Release Sheet and / or Silicone Belt need cleaning.	Clean or replace Release Sheet or Silicone Belt according to The instructions in this manual.
	Bun Chute improperly installed.	Review installation instructions and relocate Bun Chute. Verify that the bottom of the Bun Chute is level and setting flat on the counter or table.
Toaster is overheating or cooling fan is not turning properly.	Dirt and build-up on the Fan Blades or in the Fan Motor.	Turn the unit off, disconnect from power, allow to cool, and clean the Cooling Fan Blades.
Toaster making noise or conveyors are squeaking. (Note that some noise is inherent to the normal operation of the toaster & does not require Field Service. If unsure, call the APWWyott technical service department.)	Drop down Side Panels rattle.	Verify that the Door is undamaged, closed and properly seated on the topjross rods. Verify the Silicone Belt is properly installec
	Lid Rattles	Verify the Lid is undamaged, and resecure it to the top of the toaster.
	Chains emit squeaking or skipping noise or any noise indicating metal is rubbing on metal	If the noise is minor squeaking, this is normal for the toaster & will not cause a problem. To eliminate the noise, lubricate weekly with a hiah temnerature food-nradp lubricant *(p a* Snravnn 210LQ see www sprayon com). DO NOT use a vegetable basec cooking spray. If the noise is a scraping noise, it may be possible that the pin for the belt splice is coming out & scraping against the toaster. Merely push the pin back into the belt splice. If none of these correct the problem, & the toaster persists in making a loud noise, please contact an authorized APW technical service technician.
	Belt Wrap Pin rubbing on metal housing.	Center the pin in the Belt Wrap Zipper.
	Silicone Belt wrap is installed incorrectly.	Re-install the Silicone Belt according to the instructions in this manual.
Temperature Control Display Error Code - High Temperature (rly)	Failed Solid-state Relay, Heating Platen, or Temperature Control Board.	Contact an authorized APW service technician.
Temperature Control Display Error Code - Probe or Sensor (prb)	Loose or "open" Sensor, failed Sensor.	Contact an authorized APW service technician.
No Temperature Control Display, or erratic display, or displays'---'	Unit not plugged in.	Plug unit into proper electrical outlet.
	Circuit Breakers turned off or tripped.	Reset Breakers. If they trip again, contact your local electrician or authorized APW service technician.
	Wire problem, failed Circuit Board, or damaged Electrical Components	Contact an authorized APW service technician.
	Cooling Fan not turning properly. Control compartment temperature is above 150° F.	Turn unit off, disconnect power, allow to cool, clean Cooling Fan. If toaster continues to overheat, contact anauthorized APW service technician.

Manual Reset Thermostat

The manual reset is a device that provides thermal protection for the platen. In the event that the main controller or power relay fails to regulate the heat on the platen, the manual reset thermostat will break the electrical connection to the platen. The control, the motors, the conveyors, and the fans may all continue to operate, but no more heat will go to the platen. The manual reset thermostat will prevent any power from going to the platen until a person resets it.

If the manual reset thermostat trips (disallows heat to the platen), this may indicate an extreme failure of another device. If this thermostat trips more than once, it is important that you contact an authorized APW Wyott technical service technician.

To reset the thermostat, locate the thermostat at the rear of the toaster. There is a black knob near the power cord and the rating label. Unscrew the black cover (you may need a screwdriver). Push in the button that it is covering. Replace the black cover (hand tight).

7. PREVENTATIVE MAINTENANCE SCHEDULE

Tools required: **Daily:** Heat Resistant Gloves, Standard Cleaner, Standard Sanitizer, Cleaning Pad.
Weekly: Lubricant
3-6 Months: Needle Nose Pliers, Standard Cleaner, Standard Sanitizer, Cleaning Pad
Yearly: Phillips Screwdriver, Standard Lubricating Oil, Needle Nose Pliers

1) Preventative Maintenance - **Daily**

WARNING! Toaster may be hot. Allow to cool before cleaning. Use heat resistant gloves when removing the top cover, cleaning the Release Sheet, and cleaning the silicone belt.

A. Exterior. Everyday you should clean the outside of the toaster by wiping it down with a soft cloth and detergent.

B. Cooling Fan. Check air intake. The cooling fan grille on the side of the toaster must be cleaned daily clean grille with a stiff nylon type brush. The cooling fan operates when the power switch is turned to on. It must operate to keep the electrical control compartment below 140°F(60°C).

WARNING! If the fan blade is not rotating, or fan assembly is missing from main blower motor shaft, do not operate toaster. Serious damage could be done to the blower motor and / or the solid-state electrical components if the toaster is operated while the cooling fan is not running or if the cooling intake is blocked.

C. Remove the top cover and bun chute and clean in a sink.

D. Clean conveyor belts & release sheet according to the instructions described on pages 8,9 & 10.

WARNING! Do not allow articles of clothing, hands, fingers, or any foreign objects from being caught in the rotating conveyor belt. To stop the conveyor from turning, release the safety interlock switch.

2) Preventative Maintenance - **Weekly**

WARNING! Toaster may be hot. Allow to cool before cleaning. Use heat resistant gloves when removing the top cover, cleaning the release sheet, and cleaning the silicone belt.

A. In addition to the daily cleaning schedule described above, lubricate all 8 conveyor sprockets that they conveyor belts ride on. Use a lightweight, food grade, high temperature lubricant. (E.g. Sprayon Products 210LQ, see www.sprayon.com.) DO NOT use a vegetable based cooking spray.

3) Preventative Maintenance - **3 to 6 Months**

WARNING! Toaster may be hot. Allow to cool before cleaning. Use heat resistant gloves when removing the top cover, cleaning the Release Sheet, and cleaning the silicone belt.

A. In addition to the daily cleaning described above, remove and inspect the silicone belt. If worn, brittle, or damaged, replace the belt with a new one according to section 11, Procedure for Changing a Belt (see page 18).

B. While the belt is off, wipe down the conveyor belt roller with a standard cleaner. Follow cleaning by wiping down again with a standard sanitizer. Spin the roller to make sure that it turns freely.

4) Preventative Maintenance **Yearly**

A. In addition to the daily cleaning described above, remove the silicone belts according to the instructions described in (3), and inspect the metal conveyor chain. Check the tension to make sure that drive sprockets are engaging all the wires in the metal conveyor chain. If the sprockets are not engaging all the wires, if the metal belt is too loose, making noise, or exhibits any other indication of being unusually loose, remove a link from the chain. See instructions (section 12, pages19&20), Procedure for Splicing the Conveyor Chain.

CAUTION. AN ANNUAL PREVENTATIVE MAINTENANCE INSPECTION OF THE INTERNAL COMPONENTS IN YOUR TOASTER WILL EXTEND THE PRODUCT'S LIFE AND ASSURE PROPER LONG TERM PERFORMANCE. PREVENTATIVE MAINTENANCE OF THE INTERNAL COMPONENTS IS A RECOMMENDED PROCEDURE THAT MUST BE COMPLETED BY A KNOWLEDGEABLE TECHNICIAN, SUCH AS AN APW WYOTT AUTHORIZED SERVICE TECHNICIAN. PREVENTATIVE MAINTENANCE IS THE RESPONSIBILITY OF THE OWNER, AND IS NOT COVERED UNDER THE WARRANTY AGREEMENT PROVIDED WITH THE TOASTER.

B. Unplug the toaster. Open the right side panel by removing the Phillips screws with a screwdriver, and inspect the drive chain and motor. DO NOT DISCARD THE SCREWS.

WARNING! Electrical hazards are present inside the toaster's right side panel. THE TOASTER MUST BE UNPLUGGED BEFORE THE SIDE PANEL IS REMOVED. ONLY AN EXPERIENCED / AUTHORIZED EMPLOYEE OR SERVICE AGENT PROPERLY TRAINED IN MAINTAINING ELECTRICAL EQUIPMENT SHOULD BE REMOVING THE RIGHT SIDE PANEL.

Inspect the drive chain. Lubricate the chain by applying a few drops of standard lubricant to the chain and internal idler sprocket.

Inspect the drive motor. Lubricate the motor by applying a few drops of standard lubricant to the hole in the outer metal flange that contains the motor's drive shaft.

Plug the toaster back in.

8. WIRING DIAGRAMS

FIGURE 9: WIRING DIAGRAM - VSX-10 TOASTER

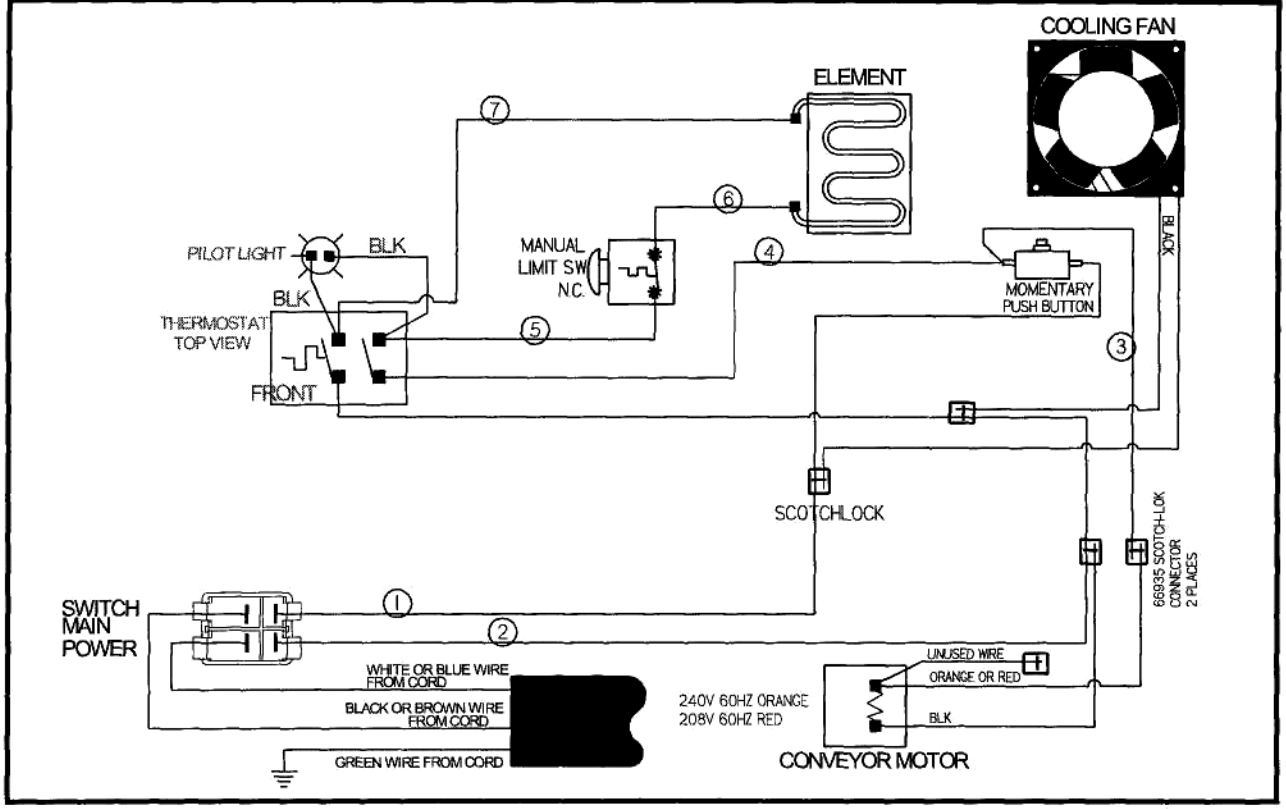
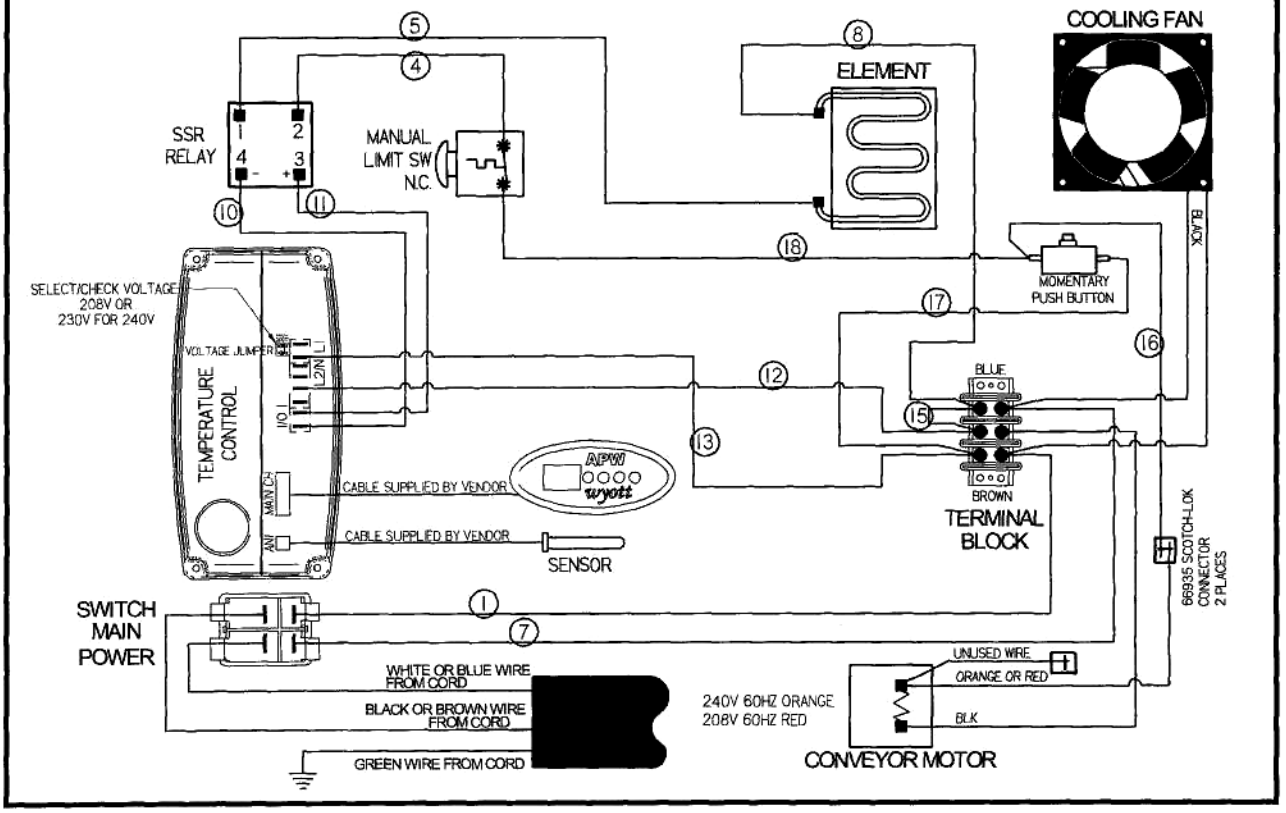
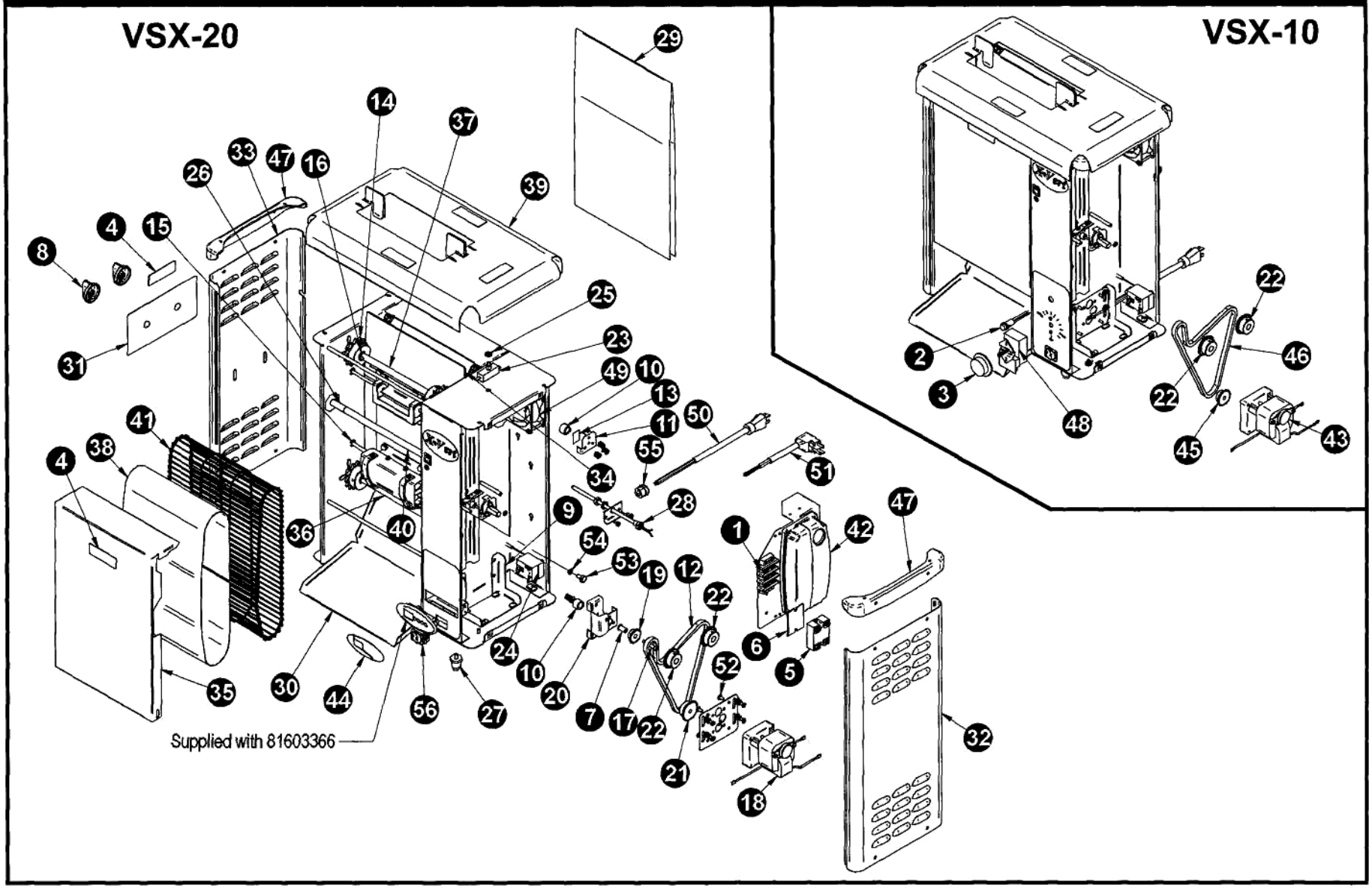


FIGURE 10: WIRING DIAGRAM - VSX-20 TOASTER



9. PARTS LIST & EXPLODED VIEW

FIGURE 11: EXPLODED VIEW VSX-10/20 TOASTER



PARTS LIST VSX-10/20 TOASTER

ITEM	PART NUMBER	DESCRIPTION	Used On
1	30201	Terminal Block	VSX-20
2	56530	Indicator Light, Amber	VSX-10
3	56740	Knob, Black	VSX-10
4	58081	Label, CAUTION HOT	VSX
5	69146	Solid State Relay	VSX-20
6	69147	Thermal Pad for Solid State Relay	VSX-20
7	81600025	Bronze Bushing	VSX
8	81600050	Bun Thickness Knob	VSX
9	81600204	Motor Mount Bracket	VSX
10	81600223	Plain Bearing	VSX
11	81600224	Keeper Plate for Bearing	VSX
12	81600235	Drive Chain #25 x 26.75" Lg.	VSX-20
13	81600246	PTFE Tape	VSX
14	81600249	Sprocket #41 14T1/2"Bore	VSX
15	81600253	Snap Ring, 1/4" E-style	VSX
16	81600266	Snap Ring, 1/2" E-style	VSX
17	81600271	Shoulder Bolt	VSX
18	81600277	Motor 208/240V 60HZ 18RPM	VSX-20
19	81600282	Sprocket #25 14T 3/8"Bore	VSX
20	81600284	Idler Sprocket Bracket	VSX
21	81600294	Sprocket #25 20T 5/16"Bore	VSX-20
22	81600295	Sprocket #25 20T 1/2"Bore	VSX
23	81600296	Lid Switch, Momentary	VSX
24	81600322	High Limit Thermostat, Manual Reset	VSX
25	81600323	Nut 3/8-32 UNEF	VSX
26	81600337	Roller 1-1/2" for Belt Tracking	VSX
27	81600360	Chrome Plated Leg, 1"	VSX
28	81603101	Temperature Probe	VSX-20
29	81603103	Release Sheet	VSX
30	81603105	Bun Chute	VSX
31	81603107	Bun Thickness Label	VSX
32	81603210	Right Access Cover	VSX
33	81603212	Left Access Cover	VSX
34	81603214	Heating Platen 208/240V 2550/3400W	VSX
35	81603220	Conveyor Access Door	VSX
36	81603226	Lower Conveyor Shaft 1/2"DIA	VSX
37	81603227	Upper Conveyor Shaft 1/2"DIA	VSX
38	81603623	Conveyor Belt, Rubber	VSX
39	81603255	Lid	VSX
40	81603340	ROLLER 12" for Belt Tracking	VSX
41	81603365	Conveyor Chain, 10.5" Wide	VSX
42	81603366	Electronic Controller	VSX-20
43	81603368	Motor 208/240V 60 HZ 5.5 RPM	VSX-10
44	81603371	Label for Electronic Controller (Elliptical)	VSX-20
45	81603373	Sprocket #25 16T 5/16"Bore	VSX-10
46	81603374	Roller Chain #25 x 26.25"LG	VSX-10
47	81603379	Corner Trim	VSX
48	81605250	Thermostat, Bulb & Cap	VSX-10
49	85281	Cooling Fan 3" DIA208/230V	VSX
50	85640	Cordset, 6-20P Plug, 3-Ft Long	VSX
51	85647	Cordset, 6-20P 90° Plug, 5-Ft Long	VSX
52	88993	Screw 10-32X3/8 Phillips Self-Locking	VSX
53	89003	Bolt 1/4-20X1/2" HEX	VSX
54	89076	Lock Washer 1/4" Internal	VSX
55	89111	Strain Relief Bushing .875"DIA	VSX
56	89488	Main Power Switch 20A277V	VSX

10. PROCEDURE FOR CONVEYOR BELT TRACKING

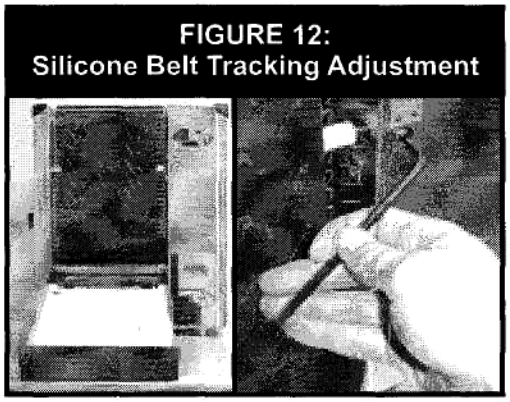


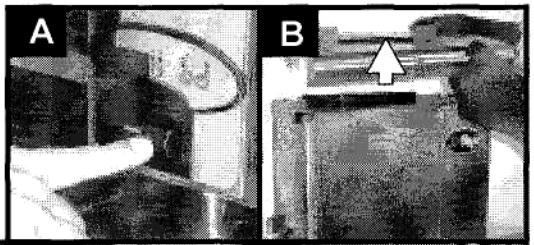
FIGURE 12:
Silicone Belt Tracking Adjustment

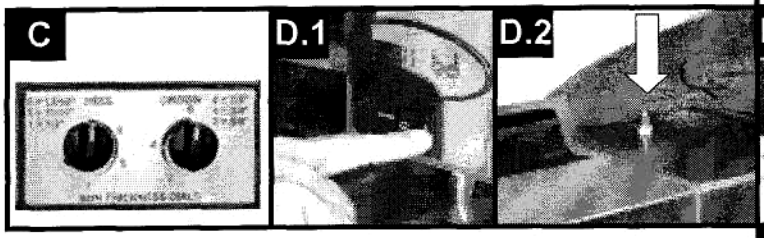
Conveyor belt tracking is checked at the factory. New toasters should not need adjusting. If, after replacing the silicone belt as described under the periodic maintenance procedure, it begins to "walk" toward one end of the conveyor or another, use the Belt Tracking Screw to align the belt to the center of the conveyor (See Figure 13.and page 19). Keeping the belt centered, along with regular cleaning, helps preserve the life of this belt. To adjust the screw, you will need a 3/16" Allen (hex) wrench or a flat-head screwdriver, depending on your toaster. Turn the screw in the direction the belt appears to be "walking" to bring it back to the center of the conveyor. After adjusting, check the tracking periodically for the first hour to verify the belt is still centered. Overadjustment may cause the belt to begin to "walk" in the opposite direction. If this occurs, re-adjust by turning the screw again in the opposite direction (again, turn in the direction the belt is walking). Two to three rotations of the screw should be enough to center the belt on the conveyor. Also see the flow diagram on the page 19 for belt tracking instructions.

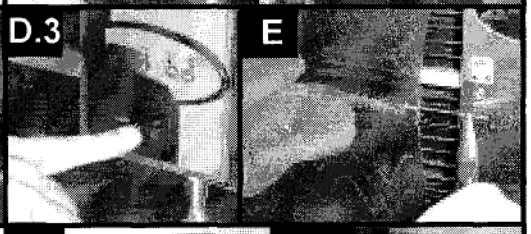
11. PROCEDURE FOR CHANGING A BELT

TOOLS NEEDED: Needle-nose pliers

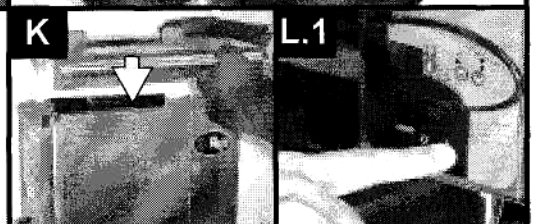
A. Turn off toaster. Let cool for 30 minutes.
B. Remove top lid and open front cover
C. Turn the Bun Thickness Dials straight up.
D. Turn toaster on and depress top lid switch button until the belt splice (flap) is at about the center of the conveyor. Turn toaster off.
E. Remove the pin from the splice using the needle-nose pliers

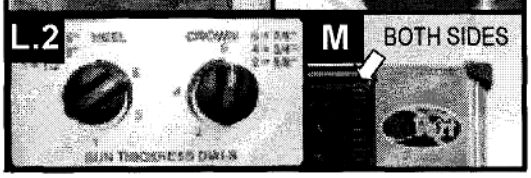






F. Remove the old belt from the toaster. (CAREFUL!!! MAY BE HOT! YOU COULD BURN YOURSELF!)
G. Put the new belt on. The "WWW" treads should face out and touch the buns. Feed the belt through the conveyor using the end of the belt without flaps. (CAREFUL!!! MAY BE HOT! YOU COULD BURN YOURSELF!)
H. Put pin in splice. The right & left sides of the belt should line up straight. Make sure that the belt is routed **OVER** the plastic roller. Make sure belt is in center of conveyor. Make sure that the flap (over the splice) is facing you and hanging down.





I. Close the front cover and turn to the rear conveyor.
J. Repeat steps D-H for rear conveyor.
K. Close the rear cover and replace the lid.
L. Turn toaster on and turn knobs to their normal settings.
M. Watch the conveyors to see if belts ride over the sprockets. If they do, follow procedure for belt adjustment (see section 13, page 19).

12. PROCEDURE FOR SPLICING THE CONVEYOR CHAIN

TOOLS NEEDED: Needle-nose pliers, cord or wire, heavy duty wire cutters, wire ties, pliers, straightedge, safety glasses

The Conveyor Chain on your toasters should give you a very long life. You should see very little chain elongation over the life of your toaster. However, if you should have to replace the conveyor chain or remove a link from the conveyor chain, please follow the following instructions.

It may be possible that your toaster has a very heavy-duty looking chain. The chain will not look like the following diagrams, and the wire diameter will be about 1/8" (about the height of two stacked pennies). This chain requires a special tool. If this is the case, you will need to call a service agent who has the correct tool. Please note that the lighter chain described here (with wire diameter about 1/16" about the width of a penny) is directly interchangeable with the heavy-duty chain that you have.

Splicing is a skill like any other. It can be learned through training, and it improves with practice. Another major factor in faster, easier splicing is having the right tools for the job.

The X'Vert™ toaster requires 62 links of new Conveyor Chain for proper operation.

REMINDER: Minimize bending the wire strands at the Z-bends. Do your necessary bending in the straight sections of the wire strands.

BEFORE YOU BEGIN SPLICING

If you are installing a new conveyor chain:

1. Disconnect the power to the toaster
2. Thread the conveyor chain onto the conveyor
3. Check to be sure that the smooth side is "up"
4. Check to be sure that the edge loops curve back in the direction opposite to the direction of conveyor chain travel
5. Remove a strand or two from the new conveyor chain to use for full strand splicing
6. Tie the two ends of the conveyor chain together with cord, twine or wire ties

If you are repairing a conveyor chain:

1. Disconnect the power to the toaster
2. Tie the two undamaged strands (that surround the link to be removed) together with cord, twine or wire
3. Cut out the damaged or unwanted portion with wire cutters; pick up and dispose of wire pieces immediately
4. Orient the new piece of conveyor chain correctly by checking the edge loops and Z-bends, then matching everything exactly. (It is easy to install the piece upside down and/or backwards if you aren't careful.)
5. Remove a strand or two from the new conveyor chain to use for full strand splicing
6. Secure the new piece of conveyor chain in place with wire ties, and cut off excess belt

Important Note: If a conveyor chain has damage in more than one place on account of fatigue, do not try to repair it. Install a new conveyor chain. Also, never save old conveyor chains to use for repairs because they have already been weakened from use. If you purchase a new conveyor chain for the toaster, be sure to purchase an extra foot to use exclusively for repairs. (APW Part #81603365).

1. Begin Splicing In The Center

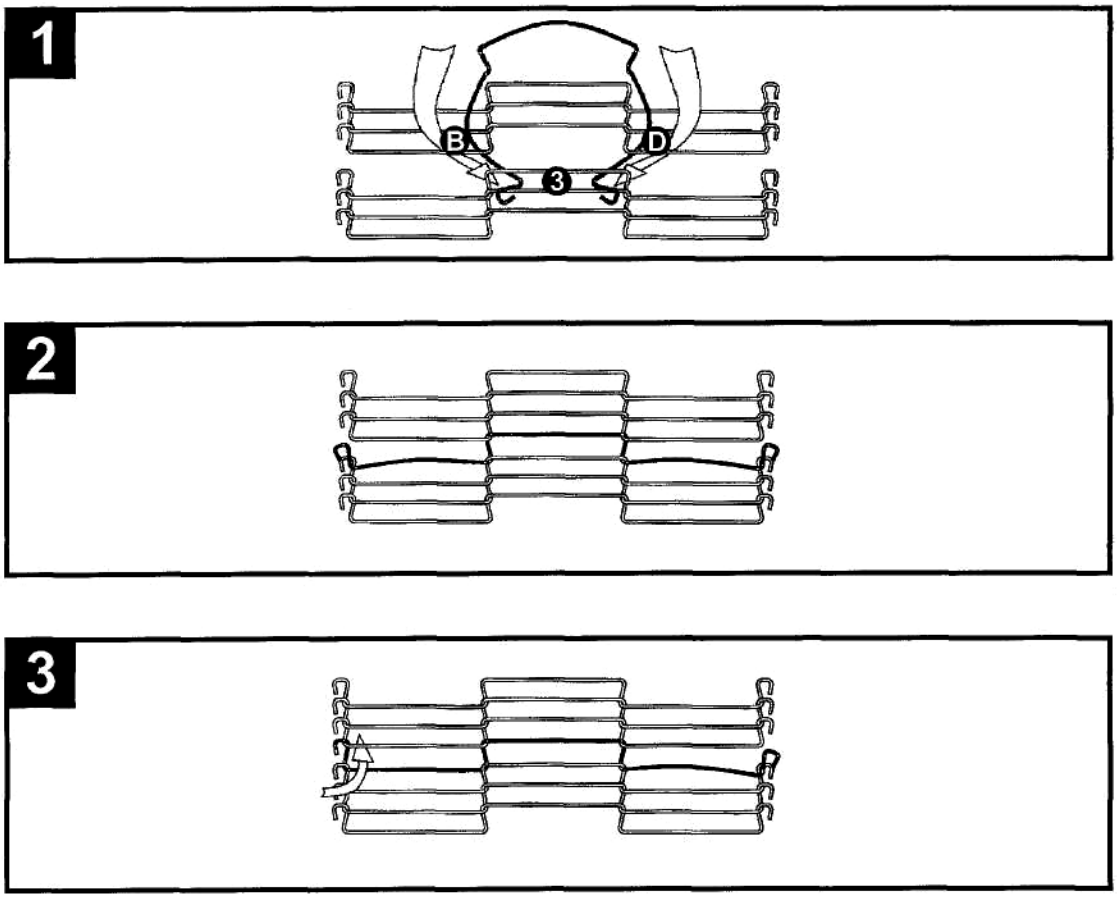
- Confirm that the edge loops are curving back away from the direction of conveyor chain travel as shown in Diagram 1. If not, check to be sure that the conveyor chain is not threaded backwards on the conveyor.
- Hold the strand up between the two conveyor chain edges and check to see that the edge loops are going in the same direction as the conveyor chain's edge loops. (The strand must also be "right side up" for it to lay flat. You will know immediately if you have installed the splice strand "wrong side up" and will have to start over.)
- BEND the strand from each side enough to INSERT the ends into the two spaces next to the center space (Spaces B and D in Diagram 1)
- INSERT the strand ends into the center space of the opposite edge(Space 3 in Diagram 1)
- Pull the ends of the strand through until the center space "locks" in place (You should be pulling the strands toward you)
- Use pliers or the Eddie Tool to STRAIGHTEN the wire in the center space (Once the center is connected, you may remove the ties holding the conveyor chain's edges together)

2. Weave Strand To Sides

- Using your pliers, connect the strand's edge loop to the conveyor chain's edge loop (on the far edge). (Diagram 2)
- Connect the edge loop on the near edge of the conveyor chain to the strand's edge loop. (Diagram 3)
- STRAIGHTEN the strand with your pliers

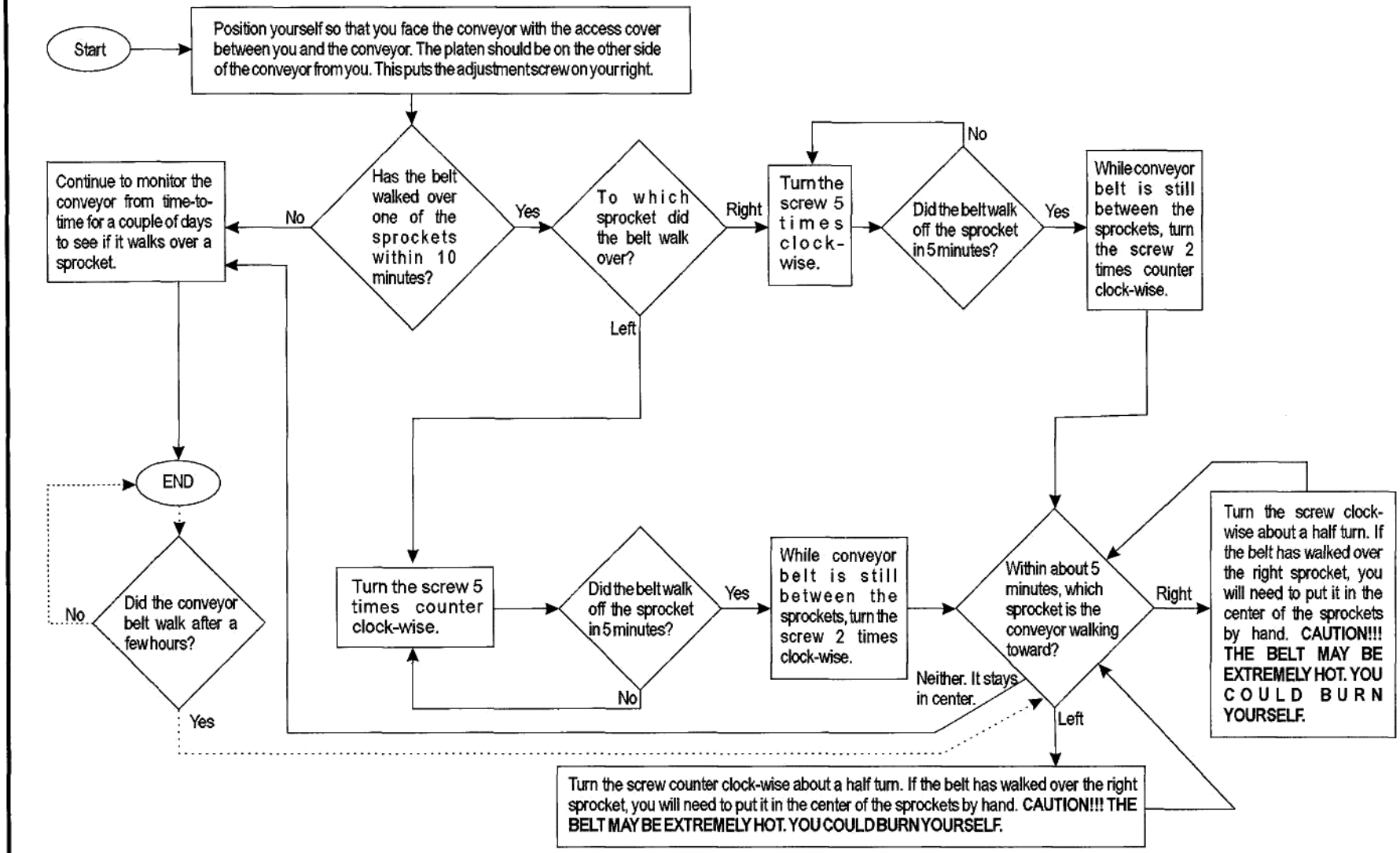
3. Check Drive Shaft Sprocket Alignment

- Check alignment of sprocket teeth with a straight edge



13. CONVEYOR BELT ADJUSTMENT

FIGURE 13: PROCEDURE FOR CONVEYOR BELT ADJUSTMENT (TRACKING)


Start
Position yourself so that you face the conveyor with the access cover between you and the conveyor. The platen should be on the other side of the conveyor from you. This puts the adjustment screw on your right.
Has the belt walked over one of the sprockets within 10 minutes?
No
Yes
Continue to monitor the conveyor from time-to-time for a couple of days to see if it walks over a sprocket.
To which sprocket did the belt walk over?
Right
Left
Turn the screw 5 times clock-wise.
No
Did the belt walk off the sprocket in 5 minutes?
Yes
While conveyor belt is still between the sprockets, turn the screw 2 times counter clock-wise.
END
Did the conveyor belt walk after a few hours?
No
Yes
Turn the screw 5 times counter clock-wise.
Did the belt walk off the sprocket in 5 minutes?
Yes
No
While conveyor belt is still between the sprockets, turn the screw 2 times clock-wise.
Within about 5 minutes, which sprocket is the conveyor walking toward?
Right
Neither. It stays in center.
Left
Turn the screw clock-wise about a half turn. If the belt has walked over the right sprocket, you will need to put it in the center of the sprockets by hand. CAUTION!!! THE BELT MAY BE EXTREMELY HOT. YOU COULD BURN YOURSELF.
Turn the screw counter clock-wise about a half turn. If the belt has walked over the right sprocket, you will need to put it in the center of the sprockets by hand. CAUTION!!! THE BELT MAY BE EXTREMELY HOT. YOU COULD BURN YOURSELF.

14. APW WYOTT EQUIPMENT LIMITED WARRANTY

APW Wyott Foodservice Equipment Company warrants it's equipment against defects in materials and workmanship, subject to the following:

This warranty applies to the original owner only and is not assignable.

Should product fail to function in its intended manner under normal use within the limits defined in this warranty, at the option of APW Wyott such product will be repaired or replaced by APW Wyott or its Authorized Service Agency. APW Wyott will only be responsible for charges incurred or service performed by its Authorized Service Agencies. The use of other than APW Wyott Authorized Service Agencies will void this warranty and APW Wyott will not be responsible for such work or any charges associated with same. The closest APW Wyott Authorized Service Agent must be used.

This warranty covers products shipped into the 48 contiguous United States, Hawaii, metropolitan areas of Alaska and Canada. There will be no labor coverage for equipment located on any island not connected by roadway to the mainland.

Time Period

One year parts, one year labor, effective from the date of purchase by the original owner. The Authorized Service Agency may, at their option, require proof of purchase. Parts replaced under this warranty are warranted for the un-expired portion of the original product warranty only.

Exceptions

***Gas/Electric Cook line** Models GCB, GCRB, GF, GGM, GGT, GHP-H, EF, EG, EHP Three (3) Year Warranty on all component parts, except switches and thermostats. (2 additional years on parts only. No labor on second or third year.) ***Heat Strips** Models OH &FD Two (2) Year Warranty on element only No labor second year. **•Glass Windows, Door Seals, Rubber Seals, Light Bulbs, Broiler Briquettes** 90 Day Material Only No Labor.

In all cases, parts covered by extended warranty will be shipped FOB the factory after the first year.

Portable Carry In Products

Equipment weighing over 70 pounds or permanently installed will be serviced on-site as per the terms of this warranty. Equipment weighing 70 pounds or under, and which is not permanently installed, i.e. with cord and plug, is considered portable and is subject to the following warranty handling limitations. If portable equipment fails to operate in its intended manner on the first day of connection, or use, at APW Wyott's option or its Authorized Service Agency, it will be serviced on site or replaced.

From day two through the conclusion of this warranty, portable units must be taken to or sent prepaid to the APW Wyott Authorized Service Agency for in-warranty repairs. No mileage or travel charges are allowed on portable units after the first day of use. If the customer wants on-site service, they may receive same by paying the travel and mileage charges. Exceptions to this rule: (1) countertop warmers and cookers, which are covered under the Enhanced Warranty Program, and (2) toasters or roller grills which have in store service.

Exclusions

The following conditions are not covered by warranty:

* Equipment failure relating to improper installation, improper utility connection or supply and problems due to ventilation.

*Equipment that has not been properly maintained, calibration of controls, adjustments, damage from improper cleaning and water damage to controls.

*Equipment that has not been used in an appropriate manner, or has been subject to misuse misapplication, neglect, abuse, accident, alteration, negligence, damage during transit, delivery or installation, fire, flood, riot or act of god.

*Equipment that has the model number or serial number removed or altered.

If the equipment has been changed, altered, modified or repaired by other than a qualified service technician during or after the warranty period, then the manufacturer shall not be liable for any damages to any person or to any property, which may result from the use of the equipment thereafter.

This warranty does not cover services performed at overtime or premium labor rates. Should service be required at times which normally involve overtime or premium labor rates, the owner shall be charged for the difference between normal service rates and such premium rates. APW Wyott does not assume any liability for extended delays in replacing or repairing any items beyond its control.

In all cases the use of other than APW Wyott Authorized OEM Replacement Parts will void this warranty.

This equipment is intended for commercial use only. Warranty is void if equipment is installed in other than commercial application.

Water Quality Requirements

Water supply intended for a unit that has in excess of 3.0 grains of hardness per gallon (GPG) must be treated or softened before being used. Water containing over 3.0 GPG will decrease the efficiency and reduce the operation life of the unit.

Note: Product failure caused by liming or sediment buildup is not covered under warranty.

"THE FOREGOING WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY **IMPLIED WARRANTY OR MERCHTABILITY OR FITNESS FOR PARTICLUAR PURPOSES AND CONSTITUTES THE ENTIRE LIABILITY OF APW WYOTT. IN NO EVENT DOES THE LIMITED WARRANTY EXTEND BEYOND THE TERMS HEREIN."**